Docket No. 87304.1940 PATENT

Serial No.: 10/687,619

Customer No. 30734

**Amendments to the Claims:** 

This listing of claims will replace all prior versions and listings of claims in the

application:

1. (Currently amended) An enclosure for containing at least one coolant

compressor/chiller for a housed cryogenic apparatus, comprising:

a cabinet coupled to the apparatus housing, wherein said cabinet is configured for

deployment in outdoor environments;

an air conditioner affixed to said cabinet, wherein said air conditioner is configured

to establish an environmental regime within said cabinet compatible with operation of the

coolant compressor/chiller over a range of outdoor environmental conditions; and

a plurality of coolant line guides positioned within said cabinet.

2. (Original) The enclosure of claim 1, further comprising at least one piping support

structure upon which said coolant line guides are mounted.

3. (Currently amended) The enclosure of claim [[1]] 5, wherein said coolant line

guides guide enclosure further comprises at least one pipeline divider tubing support

bracket.

4. (Currently amended) The enclosure of claim 3, wherein said at least one pipeline

divider tubing support bracket allows motion of said coolant lines while preventing said

coolant lines from making contact with one another over the range of temperatures to

which said eabinet enclosure is constrained by operation of said air conditioner.

5. (Original) The enclosure of claim 1, further comprising a coolant line guide

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enclosure enclosing at least in part a coolant line pathway from the coolant

compressor/chillers to at least one element of cryogenic apparatus embedded in part in the

cryogenic apparatus housing.

6. (Original) The enclosure of claim 5, wherein the surface of said coolant line guide

enclosure proximal to the housed cryogenic apparatus conforms generally to the profile of

the proximal surface of the cryogenic apparatus housing.

7. (Original) The enclosure of claim 5, wherein said coolant line guide enclosure is

insulated.

8. (Original) The enclosure of claim 5, wherein said coolant line guide enclosure

provides support to and separates said coolant lines with respect to the internal structure of

said coolant line guide enclosure.

9. (Original) The enclosure of claim 5, wherein said coolant line guide enclosure is

mated to said cabinet by a flanged clearance hole.

10. (Previously presented) The enclosure of claim 9, wherein said flanged clearance

hole permits entry by said coolant lines to said coolant line guide enclosure and is sealed to

said cabinet.

11. (Original) The enclosure of claim 5, wherein a coolant line exit from said coolant

line guide enclosure at the end thereof distal to said cabinet comprises a multiplicity of

individual close-fitted holes, each of which provides a stable, low-leakage passage for a

single coolant line.

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12. (Original) The enclosure of claim 5, wherein said coolant line guide enclosure

entirely surrounds said coolant lines to an interface with the housed cryogenic apparatus.

13. (Original) The enclosure of claim 5, wherein said coolant line guide enclosure

entirely surrounds said coolant lines and any element of said housed cryogenic apparatus

not located within the housing of said housed cryogenic apparatus.

14. (Original) The enclosure of claim 1, further comprising an auxiliary ventilation

system directing conditioned air to the region of said coolant line guide enclosure distal to

said cabinet.

15. (Original) The enclosure of claim 1, further comprising at least one insulated door

providing substantial closure of said cabinet when closed.

16. (Original) The enclosure of claim 1, further comprising a rack assembly supporting

the coolant compressor/chillers in said cabinet.

17. (Original) The enclosure of claim 1, wherein said air conditioner removes heat

from the air volume within said cabinet.

18. (Original) The enclosure of claim 1, wherein said air conditioner removes water

vapor from the air volume within said cabinet.

19. (Original) The enclosure of claim 1, wherein said air conditioner adds heat to the

air volume within said cabinet.

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20. (Original) The enclosure of claim 1, wherein said air conditioner adds water vapor

to the air volume within said cabinet.

21. (Currently amended) An enclosure for containing at least one coolant

compressor/chiller in support of a housed cryogenic apparatus, comprising:

means for mechanically supporting at least one coolant compressor/chiller adjacent

to a side surface of the housed apparatus;

means for enclosing a thermally insulated volume surrounding said supporting

means; and

means for removing heat from controlling air temperature within said enclosing

means.

22. (Original) The enclosure of claim 21, further comprising means for controlling

moisture concentration within said enclosing means.

23. (Original) The enclosure of claim 21, further comprising:

means for enclosing and guiding coolant lines within an insulated volume leading

at least part way toward a housed cryogenic apparatus; and

means for positioning coolant lines from a coolant compressor/chiller within said

enclosing means in order to prevent the coolant lines from making contact with each other

and with surfaces other than those comprising said positioning means.

24. (Currently amended) A method for providing a controlled environment for at least

one coolant compressor/chiller in support of a housed cryogenic apparatus, comprising the

steps of:

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supporting the coolant compressor/chiller adjacent to a side surface of the

cryogenic apparatus housing;

enclosing a thermally insulated volume including the coolant compressor/chiller;

and

removing heat from the enclosed volume controlling air temperature within the

controlled volume to establish an environmental regime with operation of the coolant

compressor/chiller over a range of outdoor environmental conditions

25. (Original) The environmental control method of claim 24, further comprising

controlling moisture concentration within an enclosed volume.

26. (Original) The environmental control method of claim 24, further comprising:

enclosing and guiding coolant lines within an insulated volume leading at least part

way toward the housed cryogenic apparatus; and

positioning coolant lines from a coolant compressor/chiller within an enclosed

volume in order to prevent the coolant lines from making contact with each other and with

other surfaces.

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